

# Aceh Shelter Work Group (ASWG).

Meeting 27.02 .06 – 10.00 – 12.30

## Minutes of Meeting

Send your reactions to: Shelter.ERTR.id@norack.info

### Key Issues

- 1. Presentation by Ove Arup Group: Zygmunt Lubkowski**, Associate Arup Group gave a presentation on **Natural Hazard in Aceh-Engineering Design Principles**; the presentation largely covered appropriate design measures to be adopted for designing seismic resistant building. **Jo Di Silva**, Associate Director of Arup Group also shared a presentation titled **Beyond Survival after the tsunami in Sri Lanka**; this was based on her experience as Senior Shelter Coordinator with UNHCR Colombo. The presentation largely covered UNHCRs Transitional shelter programme, monitoring & coordination mechanisms and few case studies.
- 2. Housing Milestone figures for February 2006 and April 2006**, for Aceh and Nias compiled by BRR and UN Habitat was circulated to members, members were asked to give comments on updates/ mistakes and submit back by 3rd March 06.
- 3. Announcements:**
  - a. AIPRD: David Week** informed, AIPRD is involved in mapping and planning community infrastructure at the village level. AIPRD is looking forward for partnering with NGOs/Organizations in designing and providing community based infrastructure in Aceh Besar, Aceh Jaya and Aceh Barat. Interested organization pl contact David Week ([dew@assai.com.au](mailto:dew@assai.com.au) )
  - b. ArCli: Issac** informed, a training session on Concrete roofing has been scheduled on **March 6th** at ArCli workshop. Interested Members can get enrolled for participating in training sessions.
  - c. Zero to one foundation:** Is a private company working on the reconstruction of housing, school buildings and health units in Nias. The company has been contracted by various international organizations in reconstruction projects. Any member if interested in contracting this foundation can contact - Geoff Thwaites at +62 811 706 237 or [geoff@ztof.org](mailto:geoff@ztof.org)

### Notes.

### To do / to remind.

Minutes of Meeting of 13.02.06

Approved

#### 1. Presentation by Ove Arup Group

##### a) Presentation on- Natural Hazard in Aceh-Engineering Design Principles

**Zygmunt Lubkowski**, Associate Arup Group gave a presentation on **Natural Hazard in Aceh-Engineering Design Principles**; the presentation largely covered appropriate design measures to be adopted for designing seismic resistant building. The presentation covered inputs on making structural sound construction.

It says a good design as per Indonesian seismic code will only protect against loss of life. The structure should be located in areas with minimum hazard. It should be built with due attention to both social and engineering needs.

Following considerations should be made while constructing a structure, it should be:

- ✓ Regular in plan, elevation and window/door spacing.
- ✓ Spaced apart – buildings too close can hit each other
- ✓ Flexible – they must be able to withstand repeated loads.
- ✓ Details carefully designed – these are often the weakest points.
- ✓ Materials should be of good quality and used appropriately.
- ✓ Well constructed – poor construction can ruin good design.

**Discussions:**

**Retrofitting & Repair**

**World Vision** inquired how retrofitting of houses is working in Aceh?

**Zygmunt** informed most of the houses has been fully damaged /destroyed and hence reconstruction is the only solution. Retrofitting provides stiffness and is helpful for distribution of movements and is applicable for any houses having minor damages

**ADB** inquired any considerations for the repairing

**Zygmunt** informed for repair its basically providing retrofitting solution to houses. It is very important to understand ground motions and to check seismic resistant features in existing building.

For the building with minor damages it is imperative to survey the house and conduct initial screening and declare whether the building is fit for future use. Also there is a need for creating Vulnerability Mapping for Aceh based on which future construction of houses should be planned.

**Top up to existing building codes**

**CRS** informed top up to existing building code is required, in this case can we borrow manual from other countries and adopt here

**Zygmunt** informed they have developed a manual for Gujarat Earthquake 2001 titled “The Survey of Earthquake damaged Non-Engineered structure”, the same can be shared with the group

**CRS** asked Ove Arup to comment on smooth steel being used in reconstruction projects.

**Zygmunt** informed the smooth steel being used in reconstruction projects is not strong enough to handle strong movements; it is advisable to use corrugated steel.

**BuildChange** suggested Ove Arup to advice BRR on the need to use corrugated steel.

**Zygmunt** informed we will be making a list of recommendations for the group which will be circulated to the group soon.

- **Members** pl find the copy the *Manual* mailed by UN Habitat through shelter work group mailing list

## **Plate Movements & Liquefaction Mapping**

**CRS** inquired since there have been severe movements of plates and the land has sunk in and in some places the land mass has come up, will future earthquakes have the same effect on land?

**Zygmunt** informed the plate would likely continue to sink.

**CRS** inquired if any liquefaction mapping has been done for tsunami and earthquake affected areas in Indonesia.

**Zygmunt** informed he is not sure about Aceh but in the longer run it is definitely required.

### **b) Presentation on - Beyond Survival after the tsunami in Sri Lanka**

**Jo Di Silva**, Associate Director of Arup Group also shared a presentation titled **Beyond Survival after the tsunami in Sri Lanka**; this was based on her experience as Senior Shelter Coordinator with UNHCR Colombo. The presentation largely covered UNHCR's Transitional shelter programme, monitoring & coordination mechanisms and few case studies.

The presentation stressed on the need of developing site plans, providing quality houses and setting up infrastructure in all the new settlement.

#### **Recommendations made:**

- ✓ Avoid re-location unless absolutely necessary
- ✓ Expertise not \$
- ✓ People and process and product
- ✓ Understand your caseload
- ✓ Consultation and participation
- ✓ Building local capacity through Partnership,
- ✓ Focus on quality & standards not speed
- ✓ Establish timescales, and targets to monitor
- ✓ Manage expectation
- ✓ Work with (not for) the government

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### **3. Announcements**

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- **Members** if interested pl contact **Issac 08161339489**
- **Members** if interested in contracting this foundation contact **Geoff Thwaites at +62 811 706 237 or geoff@ztof.org**